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**Suntech FULL ZIRCONIA**

**solid zirconia with no porcelain overlay**

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## The esthetic alternative to full cast crowns

Using [Suntech CAD/CAM Technology](#), the anatomical features, size and shape of the Suntech® Full Zirconia crown or Full Zirconia bridge are designed from the scan of a model or from a file obtained through a digital impression.

The restoration is then milled full contour with utmost precision, a perfect replica of the digital design - no understructure, no porcelain overlay, one single strong and translucent material.

Milled full contour, the restoration is cut from the blank and sintered, during which process it shrinks to the perfect fit. Once the desired shade is established, the crown is hand-stained with a metal free brush and glazed to an even surface.

The result: a biocompatible, esthetic and completely chip-resistant restoration; the affordable and esthetic alternative to full cast crowns!

### Suntech Full Zirconia Crown and Bridge Benefits

#### ► Completely Chip-resistant

Milled solid, Suntech Full Zirconia is monolithic, which eliminates the need for porcelain overlay and makes it completely chip-resistant, even for those cases when excessively high tension is put upon the teeth (bruxers and

#### ► Saves Tooth Structure

Because it requires minimum shoulder preparation, Suntech Full Zirconia avoids the irreversible removal of a considerable amount of tooth structure and is ideal for cases with restricted interocclusal space - a minimum of 0.5 mm is

#### ► Perfect Marginal Fit

Suntech Full Zirconia is fabricated using Suntech design and milling technology, which guarantees a precise marginal fit, contributing to the reduction of chair time.



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**Suntech FULL ZIRCONIA**

Zirconia crowns & bridges provide strength and cosmetic beauty... [more >>](#)

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Premium cast partial dentures, [Nobilstar](#) & [Chrome Cobalt](#)

grinders).

accepted.

#### ► Metal-free

Suntech Full Zirconia is metal-free and relieves the problem of dark margins around the gingival line, being the perfect alternative to full cast crowns.

#### ► Proven Strength

Suntech Full Zirconia has a bending strength of 1200 (+/- 200) MPa. For more information, please see properties table below.

#### ► Prevents Plaque

The glazed final restoration is proven to prevent plaque build-up and opposing dentition wear.

### Indications



- Posterior crowns & bridges (span of up to 13 mm)
- Ideal for bruxers and grinders

### Preparation Requirements

- Shoulder preparation is not required. Feather edge is okay.
- Conservative preparation similar to full cast gold: at least 0.5 mm of occlusal space is accepted.
- Minimal occlusal reduction of 0.5 mm okay; 1 mm is ideal.

**ADJUSTMENTS:** [Suntech Full Zirconia Tool Kit](#)

### Cementation Recommendations

- Panavia 21 [Kuraray Co.]
- Glass Ionomer Cement [Fuji GC]
- Resin Ionomer Cement [Rely X, 3M ESPE]
- Many other options are available

**TIP:** [Finishing Zirconia Chairsides article from Inside Dental Technology](#)

### Material Properties

Shade	White translucent
Density	> 6.04 g/cm <sup>3</sup>
Flexural Strength	1000 MPa
Comprehensive Strength	3000 MPa
Impact Resistance	8.0 MPa*m <sup>1/2</sup>
Modulus of Elasticity	>205 GPa
Vickers Hardness	1300 HV 0,5
Thermal Expansion	10-6 K-1 10
Thermal Conductivity	2 W/mK
Chemical Composition	ZrO <sub>2</sub> + HfO <sub>2</sub> + Y <sub>2</sub> O <sub>3</sub> > 99% Y <sub>2</sub> O <sub>3</sub> 4,5% - 5,4%



**Try Suntech Full Zirconia today!**



Call us for your starter kit  
**1.866.561.9777**

If you would like more information on Suntech Full Zirconia or our full-service dental lab, contact [Sun Dental Labs](#) today!

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